



[News](#) | [Features](#) | [Download](#) | [GitHub](#) | [Documentation](#) | [Tutorial](#) | [FAQ](#) | [Contact](#)

Useful links:
[Freecode](#)
[IceWalkers](#)

[The Linux Foundation](#)
[Linux Kernel Archives](#)
[Linux Kernel Mailing List](#)
[The Linux Documentation Project](#)



sadc manual page

NAME

sadc - System activity data collector.

SYNOPSIS

```
/usr/lib/sa/sadc [-C comment] [-F] [-L] [-V] [-S {INT | DISK |  
SNMP | IPV6 | POWER | XDISK | ALL | XALL}] [interval [  
count]] [outfile]
```

DESCRIPTION

The `sadc` command samples system data a specified number of times (`count`) at a specified interval measured in seconds (`interval`). It writes in binary format to the specified outfile or to standard output. If outfile is set to `-`, then `sadc` uses the standard system activity daily data file, the `/var/log/sa/sadd` file, where the `dd` parameter indicates the current day. In this case, `sadc` will overwrite the file if it is from a previous month. By default `sadc` collects most of the data available from the kernel. But there are also optional metrics, for which the relevant options must be explicitly passed to `sadc` to be collected (see option `-S` below).

When the count parameter is not specified, `sadc` writes its data endlessly. When both interval and count are not specified, and option `-C` is not used, a dummy record, which is used at system startup to mark the time when the counter restarts from 0, will be written. For example, one of the system startup script may write the restart mark to the daily data file by the command entry:

```
/usr/lib/sa/sadc -
```

The `sadc` command is intended to be used as a backend to the `sar` command.

Note: The `sadc` command only reports on local activities.

OPTIONS

`-C comment`

When neither the interval nor the count parameters are specified, this option tells `sadc` to write a dummy record containing the specified *comment* string. This comment can then be displayed with option `-C` of `sar`.

`-F`

The creation of outfile will be forced. If the file already exists and has format unknown to `sadc` then it will be truncated. This may be useful for daily data files created by an older version of `sadc` and whose format is no longer compatible with current one.

`-L`

`sadc` will try to get an exclusive lock on the outfile before writing to it or truncating it. Failure to get the lock is fatal, except in the case of trying to write a normal (i.e. not a dummy and not a header) record to an existing file, in which case `sadc` will try again at the next interval. Usually, the only reason a lock would fail would be if another `sadc` process were also writing to the file. This can happen when `cron` is used to launch `sadc`. If the system is under heavy load, an old `sadc` might still be running when `cron` starts a new one. Without locking, this situation can result in a corrupted system activity file.

`-S { INT | DISK | SNMP | IPV6 | POWER | XDISK | ALL | XALL }`

Specify which optional activities should be collected by `sadc`. Some activities are optional to prevent data files from growing too large. The **INT** keyword indicates that `sadc` should collect data for system interrupts. The **DISK** keyword indicates that `sadc` should collect data for block devices. The **SNMP** and **IPV6** keywords indicate respectively that SNMP and IPv6 statistics should be collected by `sadc`. The **POWER** keyword

indicates that `sadc` should collect power management statistics. The **ALL** keyword is equivalent to specifying all the keywords above and therefore all previous activities are collected. The **XDISK** keyword is an extension to the **DISK** one and indicates that partitions and filesystems statistics should be collected by `sadc` in addition to disk statistics. This option works only with kernels 2.6.25 and later. The **XALL** keyword is equivalent to specifying all the keywords above (including keyword extensions) and therefore all possible activities are collected.

Important note: The activities (including optional ones) saved in an existing data file prevail over those selected with option `-S`. As a consequence, appending data to an existing data file will result in option `-S` being ignored.

`-V`

Print version number then exit.

ENVIRONMENT

The `sadc` command takes into account the following environment variable:

`S_TIME_DEF_TIME`

If this variable exists and its value is **UTC** then `sadc` will save its data in UTC time. `sadc` will also use UTC time instead of local time to determine the current daily data file located in the `/var/log/sa` directory.

EXAMPLES

```
/usr/lib/sa/sadc 1 10 /tmp/datafile
```

Write 10 records of one second intervals to the `/tmp/datafile` binary file.

```
/usr/local/lib/sa/sadc -C "Backup Start" /tmp/datafile
```

Insert the comment "Backup Start" into the file `/tmp/datafile`.

BUGS

The `/proc` filesystem must be mounted for the `sadc` command to work.

All the statistics are not necessarily available, depending on the kernel version used. `sadc` assumes that you are using at least a 2.6 kernel.

FILES

`/var/log/sa/sadd`

Indicate the daily data file, where the `dd` parameter is a number representing the day of the month.

`/proc` contains various files with system statistics.

AUTHOR

Sebastien Godard (sysstat <at> orange.fr)

SEE ALSO

[sar\(1\)](#), [sa1\(8\)](#), [sa2\(8\)](#), [sadf\(1\)](#)

<http://pagesperso-orange.fr/sebastien.godard/>